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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/826,979	04/16/2004	Joseph Dominic Domine	2003B050A	2215
75	590 04/18/2006		EXAMINER	
ExxonMobil Chemical Company			TRAN, THAO T	
Law Technology P.O. Box 2149		ART UNIT	PAPER NUMBER	
Baytown, TX 77522-2149			1711	
			DATE MAIL ED: 04/19/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/826,979	DOMINE, JOSEPH DOMINIC				
Office Action Summary	Examiner	Art Unit				
	Thao T. Tran	1711				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 30 Ja	nuary 2006.					
	action is non-final.					
·=	,—					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-208 is/are pending in the application.						
4a) Of the above claim(s) <u>135-169</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-134, 17-208</u> is/are rejected.						
7) Claim(s) is/are objected to.						
<u> </u>						
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ∭ Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) 🔲 Notice of Informal P	atent Application (PTO-152)				
Paper No(s)/Mail Date	6)					

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DETAILED ACTION

Response to Amendment

- 1. This is in response to the Amendments filed on 1/30/2006.
- 2. Claims 1-208 are currently pending in this application. Claims 1, 43, 89, 170 have been amended.
- 3. Claims 135-169 have been withdrawn as directed to a nonelected invention as indicated in the Paper filed on 7/15/2005.

Claim Rejections - 35 USC § 112

4. In view of the Office action of 8/28/2005, the rejections of claims 2-3, 6, 9-10, 16-17, 19-21, 24, 44-46, 48, 51-52, 58-59, 61-63, 66, 90-92, 94, 97, 104-105, 107-109, 112, 172-174, 176, 179-180, 186-187, 189-191, and 194 under 35 U.S.C. 112, 1st and 2nd paragraphs, have been withdrawn due to further consideration.

Double Patenting

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

6. Claims 1-134 and 170-208 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-25, 47-60 of copending Application No. 10/469,072. Although the conflicting claims are not identical, they are not patentably distinct from each other because the scope of the claims of the copending application overlaps that of the instant claims, rendering them obvious over each other.

The claims of the copending application recite all of the limitations as recited in the instant claims 1, 43, 88, and 170. However, claims 1, 9, 17, and 40 of the copending application recite the laminate to be shaped, whereas the instant claims recite the laminate to be coextruded. Thus, the scope of the claims of the copending application overlaps that of the instant claims, rendering them obvious over each other.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

7. Claims 1-134 and 170-208 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-42, 64-81 of copending Application No. 10/472,871. Although the conflicting claims are not identical, they are not patentably distinct from each other because the scope of the claims of the copending application is narrower than that of the instant claims, rendering them obvious over each other.

The claims of the copending application recite all of the limitations as recited in the instant claims 1, 43, 88, and 170. Furthermore, claims 1, 14, 27, and 64 of the copending application disclose the tie layer comprising one or more layers of material selected from acid polymers, soft ionomers, thermoplastics, or blends thereof. Thus, the scope of the claims of the

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copending application is narrower than that of the instant claims, rendering them obvious over each other.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 9. Claims 1, 14-43, 56-89, 102-134, 170-172, and 184-208 are rejected under 35 U.S.C. 102(b) as being anticipated by Domine et al. (WO 02/078953). The reference is cited in the IDS filed 4/16/2004.

Domine discloses a coextruded laminate structure, comprising at least one layer of an ionomers resin, a tie layer, a backing layer, and a substrate (see abstract; page 5, last paragraph; Figs. 3-4). The tie layer comprises alpha-olefinic polymers and an acid polymer, such as methyl acrylic (see page 14, 2nd paragraph; page 15, last paragraph).

Claim Rejections - 35 USC § 103

- 10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

11. Claims 2-13, 44-55, 90-101, and 172-183 are rejected under 35 U.S.C. 103(a) as being unpatentable over Domine as applied to claims 1, 43, 88, and 170 above, and further in view of Iovine et al. (US Pat. 4,948,822).

Domine is as set forth in claims 1, 43, 88, and 170 above and incorporated herein.

Domine discloses the tie layer comprising alpha-olefinic polymers and an acid polymer, such as methyl acrylic (see page 14, 2nd paragraph; page 15, last paragraph). However, the reference does not teach the polymer including an amine-containing monomer or an epoxycontaining monomer.

Iovine discloses a laminating adhesive, comprising an acrylic acid alkyl or hydroxyalkul ester monomer, glycidyl methacrylate, or an amine-containing copolymerizable comonomer (see paragraph crossing col. 2 & 3). Iovine further teaches that the adhesive exhibits bond strength, and increased water and humidity resistance (see col. 2, ln. 16-19).

Therefore, it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to have employed the adhesive comprising a copolymer of an acrylic acid and glycidyl methacrylate or an amine-containing comonomer, as taught by Iovine, in the laminate of Domine, for the purpose of enhancing bond strength, and water and humidity resistance. It has also been within the skill in the art that glycidyl (meth)acrylate and amines are conventional hardeners commonly used in the art. Thus, copolymer having glycidyl and/or amine units would also have higher abrasion resistance.

12. Claims 5-13, 28-35, 47-56, 70-77, 93-101, 116-123, 175-183, 198-205 are rejected under 35 U.S.C. 103(a) as being unpatentable over Domine as applied to claims 1, 43, 88, and 170 above, and further in view of Kojima et al. (US Pat. 4,654,255).

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Domine is as set forth in claims 1, 43, 88, and 170 above and incorporated herein.

Domine discloses the tie layer comprising alpha-olefinic polymers and an acid polymer, such as methyl acrylic (see page 14, 2nd paragraph; page 15, last paragraph). However, the reference does not teach the polymer including an epoxy-containing monomer.

Kojima discloses an adhesive resin for improving interlaminar bond between layers in laminates, the adhesive comprising an epoxy-containing olefin polymer; wherein the epoxy-containing monomers are the same as recited in the instant claims such as glycidyl acrylate (see abstract; col. 2, ln. 34-45; col. 3, ln. 28-59). Kojima further teaches the adhesive comprising a diacid, such as maleic acid (see col. 2, ln. 46-60).

Therefore, it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to have employed the adhesive comprising a copolymer of an olefin and glycidyl methacrylate, as taught by Kojima, in the adhesive of Domine, for the purpose of enhancing interlaminar bond strength between layers in laminates.

Response to Arguments

13. Applicant's arguments filed on 1/30/2006 have been fully considered but they are not persuasive.

The rejections of the claims under obviousness-type double patenting are maintained and will be withdrawn upon receipt of the Terminal Disclaimers.

The rejection of the claims as anticipated by Domine WO '953 is maintained because the reference does teach a tie layer comprising olefinic polymers and methyl acrylic polymer, which read on the presently claimed invention.

14. In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning in the combination of Domine and Iovine, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971). In this case, Iovine is used to illustrate that a laminating adhesive containing a polymer of an amine-containing or epoxycontaining monomer has been taught in the prior art to improve bond strength and water and humidity resistance. Thus, Iovine is used to remedy Domine.

The same arguments are presented with respect to the combination of Domine and Kojima.

Conclusion

15. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thao T. Tran whose telephone number is 571-272-1080. The examiner can normally be reached on Monday-Friday, from 9:00 a.m. - 5:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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April 17, 2006

THAOT.TRAN

Thao Iran